

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A silica glass member for use in a plasma reaction apparatus for producing a semiconductor or a liquid crystal display using a halogen-containing compound gas and a plasma thereof, which is composed of a ~~highly durable plasma-resistant~~ silica glass consisting essentially of silica and 0.01% to 2% by weight, based on the weight of the silica glass, of at least one element selected from the group consisting of magnesium, calcium, strontium, barium, yttrium, hafnium and zirconium, which exhibits a rate of etching lower than that of an otherwise identical silica glass free of said at least one element.

2. (previously presented): The silica glass member according to claim 1, wherein the content of said at least one element is in the range of 0.05% to 0.5% by weight based on the weight of the silica glass.

3. (currently amended): The silica glass member according to claim 1, wherein said at least one element is zirconium and the silica glass is transparent.

4. (currently amended): The silica glass member according to claim 1, wherein said at least one element is zirconium and the silica glass exhibits a variant coefficient of zirconium

concentration as measured on plural micro-regions by an EPMA (X-ray micro analyzer) in the range of 0.1% to 100%; said variant coefficient being defined by the following equation:

$$\text{Variant coefficient(\%)} = \sigma / C \times 100$$

wherein σ is standard deviation and C is concentration of zirconium.

5. (previously presented): The silica glass member according to claim 1, which is a flange of a reaction tube.
6. (previously presented): The silica glass member according to claim 1, which is a bell jar.
7. (withdrawn): A semiconductor-producing apparatus equipped with a silica glass member as claimed in claim 1.
8. (withdrawn): The semiconductor-producing apparatus according to claim 7, wherein said silica glass member is a flange of a reaction tube.
9. (withdrawn): The semiconductor-producing apparatus according to claim 7, wherein said silica glass member is a bell jar.

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10. (withdrawn): A liquid crystal-producing apparatus equipped with a silica glass member as claimed in claim 1.

11. (withdrawn): The liquid crystal-producing apparatus according to claim 10, wherein said silica glass member is a flange of a reaction tube.

12. (withdrawn): The liquid crystal-producing apparatus according to claim 10, wherein said silica glass member is a bell jar.

Claims 13 to 34 (cancelled).